



Standard Performance Specification for Woven Upholstery Fabrics—Plain, Tufted, or Flocked¹

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1. Scope

1.1 This performance specification covers the performance requirements for plain, tufted, or flocked woven upholstery fabrics as used in the manufacture of new indoor furniture. These requirements apply to both the warp and filling directions for those factors where each fabric direction is pertinent.

1.2 This performance specification is not applicable to fabrics used in porch, deck, or lawn furniture; nor for knitted fabrics, bonded or laminated fabrics, or surface-coated fabrics (such as vinyls and urethanes).

1.3 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:

- D 123 Terminology Relating to Textiles²
- D 434 Test Method for Resistance to Slippage of Yarns in Woven Fabrics Using a Standard Seam²
- D 1175 Method of Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder and Uniform Abrasion)²
- D 1424 Test Method for Tearing Strength of Fabrics by Falling-Pendulum Type (Elmendorf) Apparatus²
- D 2262 Test Method for Tearing Strength of Woven Fabrics by the Tongue (Single Rip) Method (Constant -Rate- of -Traverse Tensile Testing Machine)²
- D 2905 Practice for Statements on Number of Specimens for Textiles²
- D 4157 Test Method for Abrasion Resistance of Textile Fabrics (Oscillatory Cylinder Method)²
- D 5034 Test Method for Breaking Strength and Elongation of Textile Fabrics (Grab Test)³

2.2 AATCC Test Methods:⁴

- 8 AATCC Colorfastness to Crocking:

Crockmeter Method

- 16 Colorfastness to Light
- 23 Colorfastness to Burnt Gas Fumes
- 107 Colorfastness to Water
- 116 Colorfastness to Crocking:
 - Rotary Vertical Crockmeter Method⁴
- 129 Colorfastness to Ozone in the Atmosphere Under High Humidities
- Gray Scale for Color Change, Evaluation Procedure 1
- Chromatic Transference Scale, AATCC Evaluation Procedure 8
- AATCC 9—Step Chromatic Transference Scale
- Specifications Standards Test Procedures for Upholstered Furniture Fabrics⁵
- Guides for the Household Furniture Industry⁶

2.3 Federal Standard:

- 16CFR, Chapter II—Consumer Product Safety Commission, Subchapter D—Flammable Fabrics Act Regulation⁷

2.4 Military Standard:

- ASQ/ANSI Z1.4 Sampling Procedures and Tables for Inspection by Attributes⁸

NOTE 1—Reference to test methods in this standard give only the permanent part of the designation of ASTM, AATCC, or other test methods. The current editions of each test method cited shall prevail.

3. Terminology

3.1 For definitions of textile terms used in this performance specification, refer to Terminology D 123. Definitions found in a dictionary of common terms are suitable for terms used in this performance specification.

4. Significance and Use

4.1 Fabrics intended for this end-use should meet all of the requirements listed in Table 1.

4.2 It should be recognized that fabrics can be produced utilizing an almost infinite number of combinations of construction variables (e.g., type of fibers, percentage of fibers,

¹ This performance specification is under the jurisdiction of ASTM Committee D13 on Textiles and is the direct responsibility of Subcommittee D13.63 on Home Furnishings.

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² Annual Book of ASTM Standards, Vol 07.01.

³ Annual Book of ASTM Standards, Vol 07.02.

⁴ AATCC Technical Manual, available from the American Association of Textile Chemists and Colorists, P. O. Box 12215, Research Triangle Park, NC 27709.

⁵ Issued in 1969 by the National Association of Furniture Manufacturers and the National Retail Furniture Association. Available from Home Furniture Manufacturers Assn., P. O. Box HP-7, High Point, NC 27261.

⁶ Available from the Bureau of Consumer Protection, Federal Trade Commission, Washington, DC 20580.

⁷ Available from Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402.

⁸ Available from Standardization Documents Order Desk, Bldg. 4 Section D, 700 Robbins Ave., Philadelphia, PA 19111-5094, Attn: NPODS.